

PRELIMINARY AMENDMENT  
New U.S. National Stage Entry of PCT/JP2004/004605

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (original): A code conversion method for converting first code string data conforming to a first speech coding scheme into second code string data conforming to a second speech coding scheme, the method comprising the steps of:

decoding the first code string data to generate a first decoded speech;  
correcting signal characteristics of the first decoded speech to generate a second decoded speech; and  
encoding the second decoded speech in accordance with the second speech coding scheme to generate the second code string data.

2. (original): The code conversion method according to claim 1, wherein in the step of generating the second decoded speech, the signal characteristics are corrected by a filter having characteristics which vary in accordance with characteristics of the first decoded speech.

3. (original): The method according to claim 2, wherein the characteristics of the filter are varied using at least one of frame type information included in the first code string data, size of the first code string data, and a characteristic amount which can be calculated from the first decoded speech.

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4. (original): The code conversion method according to claim 2 or 3, wherein the filter is an inverse filter to a post filter, an emphasis filter having characteristics for emphasizing high-band components of frequency, or a filter which is a combination of the inverse filter and the emphasis filter.

5. (original): The code conversion method according to claim 1, wherein in the step of generating the second decoded speech, the signal characteristics of the first decoded speech are corrected into signal characteristics suitable for re-encoding.

6. (original): The code conversion method according to claim 5, wherein in the step of generating the second decoded speech, the signal characteristics are corrected by a filter having characteristics which vary in accordance with characteristics of the first decoded speech.

7. (original): The method according to claim 6, wherein the characteristics of the filter are varied using at least one of frame type information included in the first code string data, size of the first code string data, and a characteristic amount which can be calculated from the first decoded speech.

8. (original): The code conversion method according to claim 6 or 7, wherein the filter is an inverse filter to a post filter, an emphasis filter having characteristics for emphasizing high-

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band components of frequency, or a filter which is a combination of the inverse filter and the emphasis filter.

9. (original): A code conversion apparatus for converting first code string data conforming to a first speech coding scheme into second code string data conforming to a second speech coding scheme, the apparatus comprising:

a speech decoding circuit for decoding the first code string data to generate a first decoded speech;

a signal characteristic correcting circuit for correcting signal characteristics of the first decoded speech to generate a second decoded speech; and

a speech encoding circuit for encoding the second decoded speech in accordance with the second speech coding scheme to generate the second code string data.

10. (original): The code conversion apparatus according to claim 9, wherein the signal characteristic correcting circuit corrects the signal characteristics of the first decoded speech by a filter having characteristics which vary in accordance with characteristics of the first decoded speech.

11. (original): The code conversion apparatus according to claim 10, wherein the characteristics of the filter are varied using at least one of frame type information included in the

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first code string data, size of the first code string data, and a characteristic amount which can be calculated from the first decoded speech.

12. (original): The code conversion apparatus according to claim 10 or 11, wherein the filter is an inverse filter to a post filter, an emphasis filter having characteristics for emphasizing high-band components of frequency, or a filter which is a combination of the inverse filter and the emphasis filter.

13. (original): The code conversion apparatus according to claim 9, wherein said signal characteristic correcting circuit corrects the signal characteristics of the first decoded speech into signal characteristics suitable for re-encoding to generate the second decoded speech.

14. (original): The code conversion apparatus according to claim 13, wherein the signal characteristic correcting circuit corrects the signal characteristics of the first decoded speech by a filter having characteristics which vary in accordance with characteristics of the first decoded speech.

15. (original): The code conversion apparatus according to claim 14, wherein the characteristics of the filter are varied using at least one of frame type information included in the first code string data, size of the first code string data, and a characteristic amount which can be calculated from the first decoded speech.

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16. (original): The code conversion apparatus according to claim 14 or 15, wherein the filter is an inverse filter to a post filter, an emphasis filter having characteristics for emphasizing high-band components of frequency, or a filter which is a combination of the inverse filter and the emphasis filter.

17. (original): A program for causing a computer to execute the steps of:  
decoding a first code string data conforming to a first speech coding scheme to generate a first decoded speech;  
correcting signal characteristics of the first decoded speech to generate a second decoded speech; and  
encoding the second decoded speech in accordance with a second speech coding scheme to generate a second code string data conforming to the second speech coding scheme.

18. (original): A program for causing a computer to execute the steps of:  
decoding a first code string data conforming to a first speech coding scheme to generate a first decoded speech;  
correcting signal characteristics of the first decoded speech using a filter having characteristics which vary in accordance with characteristics of the first decoded speech to generate a second decoded speech; and  
encoding the second decoded speech in accordance with a second speech coding scheme to generate a second code string data conforming to the second speech coding scheme.

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19. (original): A program for causing a computer to execute the steps of:  
decoding a first code string data conforming to a first speech coding scheme to generate a  
first decoded speech;  
correcting signal characteristics of the first decoded speech into signal characteristics  
suitable for re-encoding to generate a second decoded speech; and  
encoding the second decoded speech in accordance with a second speech coding scheme  
to generate the second code string data conforming to the second speech coding scheme.

20. (original): A program for causing a computer to execute the steps of:  
decoding a first code string data conforming to a first speech coding scheme to generate a  
first decoded speech;  
correcting signal characteristics of the first decoded speech into signal characteristics  
suitable for re-encoding, using a filter having characteristics which vary in accordance with  
characteristics of the first decoded speech, to generate a second decoded speech signal; and  
encoding the second decoded speech in accordance with a second speech coding scheme  
to generate the second code string data conforming to the second speech coding scheme.

21. (currently amended): The program according to claim 18, wherein the characteristics  
of the filter are varied using at least one of frame type information included in the first code  
string data, size of the first code string data, and a characteristic amount which can be calculated

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from the first decoded speech.—A computer readable recording medium having stored thereon the program according to any one of claims 17 to 20.

22. (new): The program according to claim 18, wherein the filter is an inverse filter to a post filter, an emphasis filter having characteristics for emphasizing high-band components of frequency, or a filter which is a combination of the inverse filter and the emphasis filter.

23. (new): The program according to claim 21, wherein the filter is an inverse filter to a post filter, an emphasis filter having characteristics for emphasizing high-band components of frequency, or a filter which is a combination of the inverse filter and the emphasis filter.

24. (new): A program for causing a computer to execute the steps of:  
decoding a first code string data conforming to a first speech coding scheme to generate a first decoded speech;  
correcting signal characteristics of the first decoded speech into signal characteristics suitable for re-encoding, using a filter having characteristics which vary in accordance with characteristics of the first decoded speech, to generate a second decoded speech signal;  
encoding the second decoded speech in accordance with a second speech coding scheme to generate the second code string data conforming to the second speech coding scheme; and

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varying the characteristics of the filter using at least one of frame type information included in the first code string data, size of the first code string data, and a characteristic amount which can be calculated from the first decoded speech.

25. (new): The program according to claim 20, wherein the filter is an inverse filter to a post filter, an emphasis filter having characteristics for emphasizing high-band components of frequency, or a filter which is a combination of the inverse filter and the emphasis filter.

26. (new): The program according to claim 24, wherein the filter is an inverse filter to a post filter, an emphasis filter having characteristics for emphasizing high-band components of frequency, or a filter which is a combination of the inverse filter and the emphasis filter.

27. (new): A computer readable recording medium having stored thereon the program according to any one of claims 17 to 26.